



SEQUENCE LISTING

<110> Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589
<141> 1998-07-15

<150> 60/052,697
<151> 1997-07-16

<160> 49

<170> PatentIn Ver. 2.1

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<213> Unknown

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<222> (1)..(12)
<223> Myosin light chain 1

<220>
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<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<220>
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<222> (7)
<223> May be either Pro or Ala.

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Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala
1 5 10

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 <223> Myosin light chain 1

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 <222> (1)
 <223> May be any amino acid.

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 <223> malate dehydrogenase

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 <222> (1)
 <223> May be any amino acid.

<220>
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 <222> (8)
 <223> May be any amino acid.

<400> 3
 Xaa Lys Val Ala Leu Gly Ala Xaa Gly Gly Ile
 1 5 10

<210> 4
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 <213> Unknown

<220>
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 <223> ATP g synthase chain

<220>
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 <223> May be any amino acid.

<220>
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<222> (2)

<223> May be any amino acid.

<400> 4

Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile
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<210> 5

<211> 10

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(10)

<223> ATP synthase oligomycin conferring protein

<220>

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<222> (1)

<223> May be any amino acid.

<220>

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<222> (2)

<223> May be any amino acid.

<400> 5

Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
 1 5 10

<210> 6

<211> 10

<212> PRT

<213> Unknown

<220>

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<223> serum albumin

<220>

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<222> (1)

<223> May be any amino acid.

<400> 6

Xaa Ala His Lys Ser Glu Ile Ala His Arg
 1 5 10

<210> 7

<211> 11

<212> PRT

<213> Unknown

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<222> (1)..(11)

<223> triose phosphate isomerase

<220>

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<222> (1)

<223> May be any amino acid.

<220>

<221> PEPTIDE

<222> (4)

<223> May be Arg or Leu.

<400> 7

Xaa Pro Ser Xaa Lys Phe Phe Val Gly Gly Asn
1 5 10

<210> 8

<211> 209

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<213> Unknown

<220>

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<222> (1)..(209)

<223> Human cardiac troponin I

<220>

<223> Swiss prot identification number P19429

<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

<400> 8

Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
1 5 10 15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
20 25 30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln

65		70		75		80									
Pro	Leu	Glu	Leu	Ala	Gly	Leu	Gly	Phe	Ala	Glu	Leu	Gln	Asp	Leu	Cys
				85					90					95	
Arg	Gln	Leu	His	Ala	Arg	Val	Asp	Lys	Val	Asp	Glu	Glu	Arg	Tyr	Asp
			100					105					110		
Ile	Glu	Ala	Lys	Val	Thr	Lys	Asn	Ile	Thr	Glu	Ile	Ala	Asp	Leu	Thr
		115					120					125			
Gln	Lys	Ile	Phe	Asp	Leu	Arg	Gly	Lys	Phe	Lys	Arg	Pro	Thr	Leu	Arg
	130					135					140				
Arg	Val	Arg	Ile	Ser	Ala	Asp	Ala	Met	Met	Gln	Ala	Leu	Leu	Gly	Ala
145					150					155					160
Arg	Ala	Lys	Glu	Ser	Leu	Asp	Leu	Arg	Ala	His	Leu	Lys	Gln	Val	Lys
				165					170					175	
Lys	Glu	Asp	Thr	Glu	Lys	Glu	Asn	Arg	Glu	Val	Gly	Asp	Trp	Arg	Lys
			180					185					190		
Asn	Ile	Asp	Ala	Leu	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Lys	Phe	Glu
		195					200					205			

Ser

<210> 9
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<220>
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 <223> Human slow skeletal troponin I

<220>
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<300>
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 <304> 7
 <305> 3
 <306> 346-357
 <307> Jul-1990

<400> 9
Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
1 5 10 15
Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
 35 40 45
 Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
 50 55 60
 Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
 65 70 75 80
 Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
 85 90 95
 Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
 100 105 110
 Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
 115 120 125
 Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
 130 135 140
 Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
 145 150 155 160
 Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175
 Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln
 180 185

<210> 10
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 <212> PRT
 <213> Unknown

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 <222> (1)..(181)
 <223> Human fast skeletal troponin I

<220>
 <223> Swiss prot identification number P48788

<300>
 <303> Biochim. Biophys. Acta
 <304> 1217
 <306> 338-340
 <307> 1994-04-06

<400> 10
 Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
 1 5 10 15
 Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu

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Glu	Ser	Arg	Arg	Glu	Ala	Glu	Lys	Gln	Asn	Tyr	Leu	Ala	Glu	His	Cys
		35					40					45			
Pro	Pro	Leu	His	Ile	Pro	Gly	Ser	Met	Ser	Glu	Val	Gln	Glu	Leu	Cys
	50					55					60				
Lys	Gln	Leu	His	Ala	Lys	Ile	Asp	Ala	Ala	Glu	Glu	Glu	Lys	Tyr	Asp
65					70					75					80
Met	Glu	Val	Arg	Val	Gln	Lys	Thr	Ser	Lys	Glu	Leu	Glu	Asp	Met	Asn
				85					90					95	
Gln	Lys	Leu	Phe	Asp	Leu	Arg	Gly	Lys	Phe	Lys	Arg	Pro	Pro	Leu	Arg
			100					105					110		
Arg	Val	Arg	Met	Ser	Ala	Asp	Ala	Met	Leu	Lys	Ala	Leu	Leu	Gly	Ser
			115					120					125		
Lys	His	Lys	Val	Cys	Met	Asp	Leu	Arg	Ala	Asn	Leu	Lys	Gln	Val	Lys
	130					135					140				
Lys	Glu	Asp	Thr	Glu	Lys	Glu	Arg	Asp	Leu	Arg	Asp	Val	Gly	Asp	Trp
145					150					155					160
Arg	Lys	Asn	Ile	Glu	Glu	Lys	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Met
				165					170					175	
Phe	Glu	Ser	Glu	Ser											
			180												

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 <222> (1)..(210)
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<220>
 <223> Swiss prot identification number P23693

<300>
 <303> Biochemistry
 <304> 30
 <305> 3
 <306> 707-712
 <307> 1991-01-22

<400> 11
 Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
 1 5 10 15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
 20 25 30
 Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45
 Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50 55 60
 Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65 70 75 80
 Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85 90 95
 Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110
 Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125
 Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 130 135 140
 Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 145 150 155 160
 Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
 165 170 175
 Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
 180 185 190
 Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe
 195 200 205
 Glu Gly
 210

<210> 12
 <211> 186
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(186)
 <223> Rat slow skeletal troponin I

<220>
 <223> Swiss prot identification number P13413

<300>
 <303> J. Biol. Chem.

<304> 264
 <305> 24
 <306> 14327-14333
 <307> 1989-08-25

<400> 12

Pro	Glu	Val	Glu	Arg	Lys	Ser	Lys	Ile	Thr	Ala	Ser	Arg	Lys	Leu	Met
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Leu	Lys	Ser	Leu	Met	Leu	Ala	Lys	Ala	Lys	Glu	Cys	Trp	Glu	Gln	Glu
			20					25					30		
His	Glu	Glu	Arg	Glu	Ala	Glu	Lys	Val	Arg	Tyr	Leu	Ser	Glu	Arg	Ile
			35				40					45			
Pro	Thr	Leu	Gln	Thr	Arg	Gly	Leu	Ser	Leu	Ser	Ala	Leu	Gln	Asp	Leu
	50					55					60				
Cys	Arg	Glu	Leu	His	Ala	Lys	Val	Glu	Val	Val	Asp	Glu	Glu	Arg	Tyr
65					70					75					80
Asp	Ile	Glu	Ala	Lys	Cys	Leu	His	Asn	Thr	Arg	Glu	Ile	Lys	Asp	Leu
				85					90					95	
Lys	Leu	Lys	Val	Leu	Asp	Leu	Arg	Gly	Lys	Phe	Lys	Arg	Pro	Pro	Leu
			100					105					110		
Arg	Arg	Val	Arg	Val	Ser	Ala	Asp	Ala	Met	Leu	Arg	Ala	Leu	Leu	Gly
		115					120					125			
Ser	Lys	His	Lys	Val	Ser	Met	Asp	Leu	Arg	Ala	Asn	Leu	Lys	Ser	Val
	130					135					140				
Lys	Lys	Glu	Asp	Thr	Glu	Lys	Glu	Arg	Pro	Val	Glu	Val	Gly	Asp	Trp
145					150					155					160
Arg	Lys	Asn	Val	Glu	Ala	Met	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Met
			165						170					175	
Phe	Asp	Ala	Ala	Lys	Ser	Pro	Thr	Leu	Gln						
		180						185							

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<222> (1)..(181)

<223> Rat fast skeletal troponin I

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<308> EMBL/GENBANK/DDBJ DATA BANKS

<309> 1992-08-01

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Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
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 20 25 30

Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
 35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65 70 75 80

Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
 115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
 130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Glu Ser Glu Ser
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<210> 14

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<212> PRT

<213> Unknown

<220>

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<222> (1)..(287)

<223> Human cardiac troponin T

<220>

<223> Swiss prot identification number P45379

<300>

<303> FEBS Lett.
 <304> 328
 <305> 1-2
 <306> 139-144
 <307> 1993-08-09

<400> 14

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Glu	Ala	Ala	Val	Glu	Glu	Gln	Glu	Glu	Ala	Ala	Glu	Glu	Asp	Ala	Glu
			20					25					30		
Ala	Glu	Ala	Glu	Thr	Glu	Glu	Thr	Arg	Ala	Glu	Glu	Asp	Glu	Glu	Glu
			35				40					45			
Glu	Glu	Ala	Lys	Glu	Ala	Glu	Asp	Gly	Pro	Met	Glu	Glu	Ser	Lys	Pro
			50			55					60				
Lys	Pro	Arg	Ser	Phe	Met	Pro	Asn	Leu	Val	Pro	Pro	Lys	Ile	Pro	Asp
					70					75					80
Gly	Glu	Arg	Val	Asp	Phe	Asp	Asp	Ile	His	Arg	Lys	Arg	Met	Glu	Lys
				85					90					95	
Asp	Leu	Asn	Glu	Leu	Gln	Ala	Leu	Ile	Glu	Ala	His	Phe	Glu	Asn	Arg
			100					105					110		
Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val	Ser	Leu	Lys	Asp	Arg	Ile	Glu	Arg
		115					120					125			
Arg	Arg	Ala	Glu	Arg	Ala	Glu	Gln	Gln	Arg	Ile	Arg	Asn	Glu	Arg	Glu
		130				135					140				
Lys	Glu	Arg	Gln	Asn	Arg	Leu	Ala	Glu	Glu	Arg	Ala	Arg	Arg	Glu	Glu
145					150					155				160	
Glu	Glu	Asn	Arg	Arg	Lys	Ala	Glu	Asp	Glu	Ala	Arg	Lys	Lys	Lys	Ala
				165					170					175	
Leu	Ser	Asn	Met	Met	His	Phe	Gly	Gly	Tyr	Ile	Gln	Lys	Gln	Ala	Gln
			180					185					190		
Thr	Glu	Arg	Lys	Ser	Gly	Lys	Arg	Gln	Thr	Glu	Arg	Glu	Lys	Lys	Lys
		195					200					205			
Lys	Ile	Leu	Ala	Glu	Arg	Arg	Lys	Val	Leu	Ala	Ile	Asp	His	Leu	Asn
	210					215					220				
Glu	Asp	Gln	Leu	Arg	Glu	Lys	Ala	Lys	Glu	Leu	Trp	Gln	Ser	Ile	Tyr
225					230					235					240
Asn	Leu	Glu	Ala	Glu	Lys	Phe	Asp	Leu	Gln	Glu	Lys	Phe	Lys	Gln	Gln
				245					250					255	
Lys	Tyr	Glu	Ile	Asn	Val	Leu	Arg	Asn	Arg	Ile	Asn	Asp	Asn	Gln	Lys

260	265	270
Val Ser Lys Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys		
275	280	285

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 <223> Human slow skeletal troponin T

<220>
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<300>
 <303> J. Biol. Chem.
 <304> 262
 <305> 33
 <306> 16122-16126
 <307> 1987-11-25

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 1 5 10 15
 Ala Ala Glu Glu Glu Glu Glu Ala Pro Glu Glu Pro Glu Pro Val Ala
 20 25 30
 Glu Pro Glu Glu Glu Arg Pro Lys Pro Ser Arg Pro Val Val Pro Pro
 35 40 45
 Leu Ile Pro Pro Lys Ile Pro Glu Gly Glu Arg Val Asp Phe Asp Asp
 50 55 60
 Ile His Arg Lys Arg Met Glu Lys Asp Leu Leu Glu Leu Gln Thr Leu
 65 70 75 80
 Ile Asp Val His Phe Glu Gln Arg Lys Lys Glu Glu Glu Glu Leu Val
 85 90 95
 Ala Leu Lys Glu Arg Ile Glu Arg Arg Arg Ser Glu Arg Ala Glu Gln
 100 105 110
 Gln Arg Phe Arg Thr Glu Lys Glu Arg Glu Arg Gln Ala Lys Leu Ala
 115 120 125
 Glu Glu Lys Met Arg Lys Glu Glu Glu Glu Ala Lys Lys Arg Ala Glu
 130 135 140
 Asp Asp Ala Lys Lys Lys Lys Val Leu Ser Asn Met Gly Ala His Phe
 145 150 155 160

Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr
165 170 175

Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu
180 185 190

Asp Ile Asp Tyr Met Gly Glu Glu Gln Leu Arg Ala Arg Ser Ala Trp
195 200 205

Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu
210 215 220

Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met
225 230 235 240

Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg
245 250 255

Ile Ser His Ala Gln Lys Phe Arg Lys Gly Ala Gly Lys Gly Arg Val
260 265 270

Gly Gly Arg Trp Lys
275

<210> 16

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<212> PRT

<213> Unknown

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<222> (1) . . (257)

<223> Human fast skeletal troponin T

<220>

<223> Swiss prot identification number P45378

<300>

<303> DNA Cell Biol.

<304> 13

<305> 3

<306> 217-233

<307> MAR-1994

<400> 16

Ser Asp Glu Glu Val Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu Glu
1 5 10 15

Glu Ala Gln Glu Glu Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp
20 25 30

Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
35 40 45

Glu	Gly	Glu	Lys	Val	Asp	Phe	Asp	Asp	Ile	Gln	Lys	Lys	Arg	Gln	Asn
50						55					60				
Lys	Asp	Leu	Met	Glu	Leu	Gln	Ala	Leu	Ile	Asp	Ser	His	Phe	Glu	Ala
65					70					75					80
Arg	Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val	Ala	Leu	Lys	Glu	Arg	Ile	Glu
			85						90					95	
Lys	Arg	Arg	Ala	Glu	Arg	Ala	Glu	Gln	Gln	Arg	Ile	Arg	Ala	Glu	Lys
			100					105					110		
Glu	Arg	Glu	Arg	Gln	Asn	Arg	Leu	Ala	Glu	Glu	Lys	Ala	Arg	Arg	Glu
		115					120					125			
Glu	Glu	Asp	Ala	Lys	Arg	Arg	Ala	Glu	Asp	Asp	Leu	Lys	Lys	Lys	Lys
	130					135					140				
Ala	Leu	Ser	Ser	Met	Gly	Ala	Asn	Tyr	Ser	Ser	Tyr	Leu	Ala	Lys	Ala
145					150					155					160
Asp	Gln	Lys	Arg	Gly	Lys	Lys	Gln	Thr	Ala	Arg	Glu	Met	Lys	Lys	Lys
				165				170						175	
Ile	Leu	Ala	Glu	Arg	Arg	Lys	Pro	Leu	Asn	Ile	Asp	His	Leu	Gly	Glu
			180					185					190		
Asp	Lys	Leu	Arg	Asp	Lys	Ala	Lys	Glu	Leu	Trp	Glu	Thr	Leu	His	Gln
		195					200					205			
Leu	Glu	Ile	Asp	Lys	Phe	Glu	Phe	Gly	Glu	Lys	Leu	Lys	Arg	Gln	Lys
	210					215					220				
Tyr	Asp	Ile	Thr	Thr	Leu	Arg	Ser	Arg	Ile	Asp	Gln	Ala	Gln	Lys	His
225					230					235					240
Ser	Lys	Lys	Ala	Gly	Thr	Pro	Ala	Lys	Gly	Lys	Val	Gly	Gly	Arg	Trp
				245					250					255	

Lys

<210> 17
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<220>
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<220>
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<300>

<303> J. Biol. Chem.

<304> 264

<305> 24

<306> 14471-14477

<307> 1989-08-25

<400> 17

Ser Asp Ala Glu Glu Glu Val Val Glu Tyr Glu Glu Glu Gln Glu Glu
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Glu Asp Trp Ser Glu Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
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Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
35 40 45

Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
50 55 60

Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
65 70 75 80

Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
85 90 95

Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
100 105 110

Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
115 120 125

Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu
130 135 140

Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln
145 150 155 160

Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg
165 170 175

Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met
180 185 190

Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg Lys Ser
195 200 205

Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu
210 215 220

Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
225 230 235 240

Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu Ala Glu
245 250 255

Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn

260 265 270
 Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
 275 280 285
 Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
 290 295

 <210> 18
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 <212> PRT
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 <222> (1)..(258)
 <223> Rat fast skeletal troponin T

 <220>
 <223> Swiss prot identification number P09739

 <300>
 <303> J. Mol. Biol.
 <304> 188
 <305> 3
 <306> 313-324
 <307> 1986-04-05

 <400> 18
 Ser Asp Glu Glu Thr Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu Glu
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 Glu Ala Gln Glu Glu Val Gln Glu Glu Ala Pro Glu Pro Glu Glu
 20 25 30
 Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
 35 40 45
 Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
 50 55 60
 Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
 65 70 75 80
 Ala Arg Lys Lys Glu Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
 85 90 95
 Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
 100 105 110
 Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
 115 120 125
 Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
 130 135 140

Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
 145 150 155 160
 Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys
 165 170 175
 Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
 180 185 190
 Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
 195 200 205
 Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
 210 215 220
 Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys
 225 230 235 240
 His Ser Lys Lys Ala Gly Ala Thr Ala Lys Gly Lys Val Gly Gly Arg
 245 250 255

Trp Lys

<210> 19
 <211> 192
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(192)
 <223> rat myosin light chain 1, atrial isoform

<220>
 <223> Swiss prot identification number P17209

<300>
 <303> Nucleic Acids Res.
 <304> 18
 <305> 6
 <306> 1581-1586
 <307> 1990-03-25

<400> 19
 Pro Pro Lys Lys Pro Glu Pro Lys Lys Glu Thr Ala Lys Val Ala Ala
 1 5 10 15
 Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Glu Pro Leu Arg Asp Ser
 20 25 30
 Ala Phe Asp Pro Lys Ser Val Lys Ile Asp Phe Ser Ala Asp Gln Ile
 35 40 45
 Glu Glu Phe Lys Glu Ala Phe Ser Leu Phe Asp Arg Thr Pro Thr Gly

50					55					60					
Glu	Met	Lys	Ile	Thr	Tyr	Gly	Gln	Cys	Gly	Asp	Val	Leu	Arg	Ala	Leu
65					70					75					80
Gly	Gln	Asn	Pro	Thr	Asn	Ala	Glu	Val	Leu	Arg	Val	Leu	Gly	Lys	Pro
				85					90					95	
Lys	Pro	Glu	Glu	Met	Asn	Ser	Lys	Thr	Leu	Asp	Phe	Glu	Met	Phe	Leu
			100					105					110		
Pro	Ile	Leu	Gln	His	Ile	Ser	Arg	Asn	Lys	Glu	Gln	Gly	Thr	Tyr	Glu
		115					120					125			
Asp	Phe	Val	Glu	Gly	Leu	Arg	Val	Phe	Asp	Lys	Glu	Ser	Asn	Gly	Thr
	130					135					140				
Val	Met	Gly	Ala	Glu	Leu	Arg	His	Val	Leu	Ala	Thr	Leu	Gly	Glu	Lys
145						150					155				160
Met	Ser	Glu	Ala	Glu	Val	Glu	Gln	Leu	Leu	Thr	Gly	Gln	Glu	Asp	Ala
				165					170					175	
Asn	Gly	Cys	Ile	Asn	Tyr	Glu	Ala	Phe	Val	Lys	His	Val	Met	Ser	Gly
			180					185					190		

<210> 20

<211> 193

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(193)

<223> Rat cardiac troponin I

<400> 20

Ala	Asp	Glu	Ser	Ser	Asp	Ala	Ala	Gly	Glu	Pro	Gln	Pro	Ala	Pro	Ala
1				5					10					15	
Pro	Val	Arg	Arg	Arg	Ser	Ser	Ala	Asn	Tyr	Arg	Ala	Tyr	Ala	Thr	Glu
			20					25					30		
Pro	His	Ala	Lys	Lys	Lys	Ser	Lys	Ile	Ser	Ala	Ser	Arg	Lys	Leu	Gln
		35					40					45			
Leu	Lys	Thr	Leu	Met	Leu	Gln	Ile	Ala	Lys	Gln	Glu	Met	Glu	Arg	Glu
	50					55					60				
Ala	Glu	Glu	Arg	Arg	Gly	Glu	Lys	Gly	Arg	Val	Leu	Ser	Thr	Arg	Cys
65					70				75						80
Gln	Pro	Leu	Val	Leu	Asp	Gly	Leu	Gly	Phe	Glu	Glu	Leu	Gln	Asp	Leu
				85				90						95	

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110
 Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125
 Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 130 135 140
 Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 145 150 155 160
 Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
 165 170 175
 Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
 180 185 190

Lys

<210> 21
 <211> 192
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1) .. (192)
 <223> Human cardiac troponin I

<400> 21
 Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
 1 5 10 15
 Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
 20 25 30
 His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
 35 40 45
 Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
 50 55 60
 Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
 65 70 75 80
 Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
 85 90 95
 Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
 100 105 110
 Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
 115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
 130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
 145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
 165 170 175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
 180 185 190

<210> 22

<211> 131

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (63)..(193)

<223> Rat cardiac troponin I

<400> 22

Arg Glu Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr
 1 5 10 15

Arg Cys Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln
 20 25 30

Asp Leu Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu
 35 40 45

Arg Tyr Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala
 50 55 60

Asp Leu Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro
 65 70 75 80

Thr Leu Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu
 85 90 95

Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys
 100 105 110

Gln Val Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp
 115 120 125

Trp Arg Lys
 130

<210> 23

<211> 131

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (62)..(192)

<223> Human cardiac troponin I

<400> 23

Arg Glu Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr
1 5 10 15

Arg Cys Gln Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln
20 25 30

Asp Leu Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu
35 40 45

Arg Tyr Asp Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala
50 55 60

Asp Leu Thr Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro
65 70 75 80

Thr Leu Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu
85 90 95

Leu Gly Ala Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys
100 105 110

Gln Val Lys Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp
115 120 125

Trp Arg Lys
130

<210> 24

<211> 121

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (73)..(193)

<223> Rat cardiac troponin I

<400> 24

Gly Arg Val Leu Ser Thr Arg Cys Gln Pro Leu Val Leu Asp Gly Leu
1 5 10 15

Gly Phe Glu Glu Leu Gln Asp Leu Cys Arg Gln Leu His Ala Arg Val
20 25 30

Asp Lys Val Asp Glu Glu Arg Tyr Asp Val Glu Ala Lys Val Thr Lys
35 40 45

Asn Ile Thr Glu Ile Ala Asp Leu Thr Gln Lys Ile Tyr Asp Leu Arg
 50 55 60

Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile Ser Ala Asp
 65 70 75 80

Ala Met Met Gln Ala Leu Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp
 85 90 95

Leu Arg Ala His Leu Lys Gln Val Lys Lys Glu Asp Ile Glu Lys Glu
 100 105 110

Asn Arg Glu Val Gly Asp Trp Arg Lys
 115 120

<210> 25

<211> 121

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (72)..(192)

<223> Human cardiac troponin I

<400> 25

Gly Arg Ala Leu Ser Thr Arg Cys Gln Pro Leu Glu Leu Ala Gly Leu
 1 5 10 15

Gly Phe Ala Glu Leu Gln Asp Leu Cys Arg Gln Leu His Ala Arg Val
 20 25 30

Asp Lys Val Asp Glu Glu Arg Tyr Asp Ile Glu Ala Lys Val Thr Lys
 35 40 45

Asn Ile Thr Glu Ile Ala Asp Leu Thr Gln Lys Ile Phe Asp Leu Arg
 50 55 60

Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile Ser Ala Asp
 65 70 75 80

Ala Met Met Gln Ala Leu Leu Gly Ala Arg Ala Lys Glu Ser Leu Asp
 85 90 95

Leu Arg Ala His Leu Lys Gln Val Lys Lys Glu Asp Thr Glu Lys Glu
 100 105 110

Asn Arg Glu Val Gly Asp Trp Arg Lys
 115 120

<210> 26

<211> 17

<212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (194)..(210)
 <223> Rat cardiac troponin I

<400> 26

Asn	Ile	Asp	Ala	Leu	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Lys	Phe	Glu
1				5					10					15	

Gly

<210> 27
 <211> 17
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (193)..(209)
 <223> Human cardiac troponin I

<400> 27

Asn	Ile	Asp	Ala	Leu	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Lys	Phe	Glu
1				5					10					15	

Ser

<210> 28
 <211> 173
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (20)..(192)
 <223> rat myosin light chain 1, atrial isoform

<400> 28

Pro	Ala	Pro	Ala	Pro	Ala	Pro	Glu	Pro	Leu	Arg	Asp	Ser	Ala	Phe	Asp
1				5					10					15	

Pro	Lys	Ser	Val	Lys	Ile	Asp	Phe	Ser	Ala	Asp	Gln	Ile	Glu	Glu	Phe
			20						25				30		

Lys	Glu	Ala	Phe	Ser	Leu	Phe	Asp	Arg	Thr	Pro	Thr	Gly	Glu	Met	Lys
		35					40					45			

Ile	Thr	Tyr	Gly	Gln	Cys	Gly	Asp	Val	Leu	Arg	Ala	Leu	Gly	Gln	Asn
	50					55					60				

Pro	Thr	Asn	Ala	Glu	Val	Leu	Arg	Val	Leu	Gly	Lys	Pro	Lys	Pro	Glu
65					70					75					80

Glu Met Asn Ser Lys Thr Leu Asp Phe Glu Met Phe Leu Pro Ile Leu
 85 90 95

Gln His Ile Ser Arg Asn Lys Glu Gln Gly Thr Tyr Glu Asp Phe Val
 100 105 110

Glu Gly Leu Arg Val Phe Asp Lys Glu Ser Asn Gly Thr Val Met Gly
 115 120 125

Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly Glu Lys Met Ser Glu
 130 135 140

Ala Glu Val Glu Gln Leu Thr Gly Gln Glu Asp Ala Asn Gly Cys
 145 150 155 160

Ile Asn Tyr Glu Ala Phe Val Lys His Val Met Ser Gly
 165 170

<210> 29

<211> 19

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(19)

<223> rat myosin light chain 1, atrial isoform

<400> 29

Pro Pro Lys Lys Pro Glu Pro Lys Lys Glu Thr Ala Lys Val Ala Ala
 1 5 10 15

Ala Pro Ala

<210> 30

<211> 108

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (191)..(298)

<223> Rat cardiac troponin T

<400> 30

Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg
 1 5 10 15

Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu
 20 25 30

Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln
 35 40 45

Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu

25

50		55		60
Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu				
65		70		75
Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys				
	85		90	95
Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys				
	100		105	

<210> 31
 <211> 190
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(190)
 <223> Rat cardiac troponin T

<400> 31

Ser Asp Ala Glu Glu Glu Val Val Glu Tyr Glu Glu Glu Gln Glu Glu				
1		5		10
Glu Asp Trp Ser Glu Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu				
	20		25	30
Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala				
	35		40	45
Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp				
	50		55	60
Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu				
65		70		75
Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val				
	85		90	95
Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu				
	100		105	110
Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu				
	115		120	125
Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu				
	130		135	140
Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln				
145		150		155
Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg				
	165		170	175
Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser				

180

185

190

<210> 32
 <211> 106
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (182)..(287)
 <223> Human cardiac troponin T

<400> 32
 His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln Thr Glu Arg Lys Ser
 1 5 10 15
 Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu
 20 25 30
 Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
 35 40 45
 Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr Asn Leu Glu Ala Glu
 50 55 60
 Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn
 65 70 75 80
 Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
 85 90 95
 Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
 100 105

<210> 33
 <211> 181
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(181)
 <223> Human cardiac troponin T

<400> 33
 Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Glu Gln Glu
 1 5 10 15
 Glu Ala Ala Val Glu Glu Gln Glu Glu Ala Ala Glu Glu Asp Ala Glu
 20 25 30
 Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
 35 40 45
 Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
 50 55 60

27

Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
65 70 75 80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
85 90 95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
100 105 110

Lys Lys Glu Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
115 120 125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
130 135 140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
145 150 155 160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
165 170 175

Leu Ser Asn Met Met

<210> 34
<211> 13
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (136)..(148)
<223> Rat cardiac troponin I

<400> 34
Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg
1 5 10

<210> 35
<211> 47
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (129)..(175)
<223> Rat cardiac troponin I

<400> 35
Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
1 5 10 15

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
20 25 30

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln

35

40

45

<210> 36
 <211> 157
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (54)..(210)
 <223> Rat cardiac troponin I

<400> 36
 Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu Ala Glu Glu Arg Arg
 1 5 10 15
 Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys Gln Pro Leu Val Leu
 20 25 30
 Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu Cys Arg Gln Leu His
 35 40 45
 Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp Val Glu Ala Lys
 50 55 60
 Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr Gln Lys Ile Tyr
 65 70 75 80
 Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile
 85 90 95
 Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Thr Arg Ala Lys Glu
 100 105 110
 Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys Lys Glu Asp Ile
 115 120 125
 Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys Asn Ile Asp Ala
 130 135 140
 Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu Gly
 145 150 155

<210> 37
 <211> 188
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(188)
 <223> Rat cardiac troponin I

<400> 37
 Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala

29
 1 5 10 15
 Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
 20 25 30
 Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45
 Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50 55 60
 Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65 70 75 80
 Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85 90 95
 Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110
 Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125
 Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 130 135 140
 Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 145 150 155 160
 Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
 165 170 175
 Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val
 180 185

<210> 38
 <211> 199
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(199)
 <223> Rat cardiac troponin I

<400> 38
 Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
 1 5 10 15
 Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
 20 25 30
 Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45
 Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu

30

50		55		60
Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys				
65		70		75 80
Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu				
	85		90	95
Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr				
	100		105	110
Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu				
	115		120	125
Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu				
	130		135	140
Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly				
145		150		155 160
Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val				
	165		170	175
Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg				
	180		185	190
Lys Asn Ile Asp Ala Leu Ser				
	195			

<210> 39
 <211> 12
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (188)..(199)
 <223> Human cardiac troponin I

<400> 39
 Gly Asp Trp Arg Lys Asn Ile Asp Ala Leu Ser Gly
 1 5 10

<210> 40
 <211> 6
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (70)..(75)
 <223> rat myosin light chain 1, atrial isoform

<400> 40
 Tyr Gly Gln Cys Gly Asp
 1 5

<210> 41
 <211> 36
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (157)..(192)
 <223> rat cardiac troponin I

<400> 41
 Ala Leu Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His
 1 5 10 15
 Leu Lys Gln Val Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val
 20 25 30
 Gly Asp Trp Arg
 35

<210> 42
 <211> 65
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(65)
 <223> rat cardiac troponin I

<400> 42
 Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
 1 5 10 15
 Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
 20 25 30
 Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45
 Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50 55 60
 Ala
 65

<210> 43
 <211> 11
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE

<222> (189)..(199)

<223> rat cardiac troponin I

<400> 43

Gly Asp Trp Arg Lys Asn Ile Asp Ala Leu Ser
1 5 10

<210> 44

<211> 12

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (137)..(148)

<223> rat cardiac troponin I

<400> 44

Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg
1 5 10

<210> 45

<211> 47

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (96)..(142)

<223> Synthetic skeletal troponin I

<400> 45

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
1 5 10 15

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
20 25 30

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln
35 40 45

<210> 46

<211> 27

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (28)..(54)

<223> Rat cardiac troponin I

<400> 46

Ala Tyr Ala Thr Glu Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala
1 5 10 15

Ser Arg Lys Leu Gln Leu Lys Thr Leu Met Leu
 20 25

<210> 47
 <211> 12
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (137)..(148)
 <223> human cardiac troponin I

<400> 47
 Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile
 1 5 10

<210> 48
 <211> 161
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(161)
 <223> human cardiac/slow skeletal troponin C

<400> 48

Met Asp Asp Ile Tyr Lys Ala Ala Val Glu Gln Leu Thr Glu Glu Gln
 1 5 10 15

Lys Asn Glu Phe Lys Ala Ala Phe Asp Ile Phe Val Leu Gly Ala Glu
 20 25 30

Asp Gly Cys Ile Ser Thr Lys Glu Lys Gly Lys Val Met Arg Met Lys
 35 40 45

Gly Gln Asn Pro Thr Pro Glu Glu Lys Gln Glu Met Ile Asp Glu Val
 50 55 60

Asp Glu Asp Gly Ser Gly Thr Val Asp Phe Asp Glu Phe Leu Val Met
 65 70 75 80

Met Val Arg Cys Met Lys Asp Asp Ser Lys Gly Lys Ser Glu Glu Glu
 85 90 95

Leu Ser Asp Leu Phe Arg Met Phe Asp Lys Asn Ala Asp Gly Tyr Ile
 100 105 110

Asp Leu Glu Glu Leu Lys Ile Met Leu Gln Ala Thr Gly Glu Thr Ile
 115 120 125

Thr Glu Asp Asp Ile Glu Glu Leu Met Lys Asp Gly Asp Lys Arg Arg
 130 135 140

Asp Gly Arg Ile Asp Tyr Asp Glu Phe Leu Glu Phe Met Lys Gly Val
 145 150 155 160

Glu

<210> 49

<211> 94

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1) .. (94)

<223> human cardiac/slow skeletal troponin C

<400> 49

Met Asp Asp Ile Tyr Lys Ala Ala Val Glu Gln Leu Thr Glu Glu Gln
 1 5 10 15

Lys Asn Glu Phe Lys Ala Ala Phe Asp Ile Phe Val Leu Gly Ala Glu
 20 25 30

Asp Gly Cys Ile Ser Thr Lys Glu Lys Gly Lys Val Met Arg Met Lys
 35 40 45

Gly Gln Asn Pro Thr Pro Glu Glu Lys Gln Glu Met Ile Asp Glu Val
 50 55 60

Asp Glu Asp Gly Ser Gly Thr Val Asp Phe Asp Glu Phe Leu Val Met
 65 70 75 80

Met Val Arg Cys Met Lys Asp Asp Ser Lys Gly Lys Ser Glu
 85 90